

# **APPENDIX NIM (NETWORK INTERCONNECTION METHODS)**

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## APPENDIX NIM (NETWORK INTERCONNECTION METHODS)

### 1. INTRODUCTION

- 1.1 This Appendix sets forth the terms and conditions that Network Interconnection Methods (NIM) is provided by the applicable SBC Communications Inc. (SBC) owned Incumbent Local Exchange Carrier (ILEC) and CLEC. This Appendix describes the physical architecture for Interconnection of the Parties' facilities and equipment for the transmission and routing of Telephone Exchange Service traffic and Exchange Access traffic between the respective Customers of the Parties pursuant to Section 251(c)(2) of the Act; provided, however, Interconnection may not be used solely for the purpose of originating a Party's own interexchange traffic.
- 1.2 **SBC Communications Inc. (SBC)** means the holding company which directly or indirectly owns the following ILECs: Illinois Bell Telephone Company d/b/a SBC Illinois, Indiana Bell Telephone Company Incorporated d/b/a SBC Indiana, Michigan Bell Telephone Company d/b/a SBC Michigan, Nevada Bell Telephone Company d/b/a SBC Nevada, The Ohio Bell Telephone Company d/b/a SBC Ohio, Pacific Bell Telephone Company d/b/a SBC California, The Southern New England Telephone Company, Southwestern Bell Telephone, L.P. d/b/a SBC Arkansas, SBC Kansas, SBC Missouri, SBC Oklahoma and/or SBC Texas and/or Wisconsin Bell, Inc. d/b/a SBC Wisconsin.
- 1.3 **SBC-2STATE** - As used herein, **SBC-2STATE** means **SBC CALIFORNIA** and **SBC NEVADA**, the applicable SBC-owned ILEC(s) doing business in California and Nevada.
- 1.4 **SBC-4STATE** - As used herein, **SBC-4STATE** means Southwestern Bell Telephone, L.P. d/b/a SBC Arkansas, SBC Kansas, SBC Missouri, and SBC Oklahoma the applicable SBC-owned ILEC(s) doing business in Arkansas, Kansas, Missouri and Oklahoma.
- 1.5 **SBC-7STATE** - As used herein, **SBC-7STATE** means **SBC SOUTHWEST REGION 5-STATE**, **SBC CALIFORNIA** and **SBC NEVADA**, the applicable SBC-owned ILEC(s) doing business in Arkansas, California, Kansas, Missouri, Nevada, Oklahoma, and Texas.
- 1.6 **SBC-8STATE** - As used herein, **SBC-8STATE** means **SBC SOUTHWEST REGION 5-STATE**, **SBC CALIFORNIA**, **SBC NEVADA**, and **SBC SNET** the applicable SBC-owned ILEC(s) doing business in Arkansas, California, Connecticut, Kansas, Missouri, Nevada, Oklahoma, and Texas.
- 1.7 **SBC-10STATE** - As used herein, **SBC-10STATE** means **SBC SOUTHWEST REGION 5-STATE** and **SBC MIDWEST REGION 5-STATE** an the applicable SBC-owned ILEC(s) doing business in Arkansas, Illinois, Indiana, Kansas, Michigan, Missouri, Ohio, Oklahoma, Texas, and Wisconsin.
- 1.8 **SBC-12STATE** - As used herein, **SBC-12STATE** means **SBC SOUTHWEST REGION 5-STATE**, **SBC MIDWEST REGION 5-STATE** and **SBC-2STATE** the applicable SBC-owned ILEC(s) doing business in Arkansas, California, Illinois, Indiana, Kansas, Michigan, Missouri, Nevada, Ohio, Oklahoma, Texas, and Wisconsin.
- 1.9 **SBC-13STATE** - As used herein, **SBC-13STATE** means **SBC SOUTHWEST REGION 5-STATE**, **SBC MIDWEST REGION 5-STATE**, **SBC-2STATE** and **SBC SNET** the applicable SBC-owned ILEC(s) doing business in Arkansas, California, Connecticut, Illinois, Indiana, Kansas, Michigan, Missouri, Nevada, Ohio, Oklahoma, Texas, and Wisconsin.
- 1.10 **SBC ARKANSAS** - As used herein, **SBC ARKANSAS** means Southwestern Bell Telephone, L.P. d/b/a SBC Arkansas, the applicable SBC-owned ILEC doing business in Arkansas.
- 1.11 **SBC CALIFORNIA** – As used herein, **SBC CALIFORNIA** means Pacific Bell Telephone Company d/b/a SBC California, the applicable SBC-owned ILEC doing business in California.
- 1.12 **SBC KANSAS** - As used herein, **SBC KANSAS** means Southwestern Bell Telephone, L.P. d/b/a SBC Kansas, the applicable SBC-owned ILEC doing business in Kansas.

- 1.13 **SBC ILLINOIS** - As used herein, **SBC ILLINOIS** means Illinois Bell Telephone Company d/b/a SBC Illinois, the applicable SBC-owned ILEC doing business in Illinois.
- 1.14 **SBC INDIANA** - As used herein, **SBC INDIANA** means Indiana Bell Telephone Company Incorporated d/b/a SBC Indiana, the applicable SBC-owned ILEC doing business in Indiana.
- 1.15 **SBC MICHIGAN** - As used herein, **SBC MICHIGAN** means Michigan Bell Telephone Company d/b/a SBC Michigan, the applicable SBC-owned doing business in Michigan.
- 1.16 **SBC MIDWEST REGION 5-STATE** - As used herein, **SBC MIDWEST REGION 5-STATE** means Illinois Bell Telephone Company d/b/a SBC Illinois, Indiana Bell Telephone Company Incorporated d/b/a SBC Indiana, Michigan Bell Telephone Company d/b/a SBC Michigan, The Ohio Bell Telephone Company d/b/a SBC Ohio, and/or Wisconsin Bell, Inc. d/b/a SBC Wisconsin, the applicable SBC-owned ILEC(s) doing business in Illinois, Indiana, Michigan, Ohio, and Wisconsin.
- 1.17 **SBC MISSOURI** - As used herein, **SBC MISSOURI** means Southwestern Bell Telephone, L.P. d/b/a SBC Missouri, the applicable SBC-owned ILEC doing business in Missouri.
- 1.18 **SBC NEVADA** - As used herein, **SBC NEVADA** means Nevada Bell Telephone Company d/b/a SBC Nevada, the applicable SBC-owned ILEC doing business in Nevada.
- 1.19 **SBC OHIO** - As used herein, **SBC OHIO** means The Ohio Bell Telephone Company d/b/a SBC Ohio, the applicable SBC-owned ILEC doing business in Ohio.
- 1.20 **SBC OKLAHOMA** - As used herein, **SBC OKLAHOMA** means Southwestern Bell Telephone, L.P. d/b/a SBC Oklahoma, the applicable SBC-owned ILEC doing business in Oklahoma.
- 1.21 **SBC SNET** - As used herein, **SBC SNET** means The Southern New England Telephone Company, the applicable above listed ILEC doing business in Connecticut.
- 1.22 **SBC SOUTHWEST REGION 5-STATE** - As used herein, **SBC SOUTHWEST REGION 5-STATE** means Southwestern Bell Telephone, L.P. d/b/a SBC Arkansas, SBC Kansas, SBC Missouri, SBC Oklahoma and/or SBC Texas the applicable above listed ILEC(s) doing business in Arkansas, Kansas, Missouri, Oklahoma, and Texas.
- 1.23 **SBC TEXAS** – As used herein, **SBC TEXAS** means Southwestern Bell Telephone, L.P. d/b/a SBC Texas, the applicable SBC-owned ILEC doing business in Texas.
- 1.24 **SBC WISCONSIN** - As used herein, **SBC WISCONSIN** means Wisconsin Bell, Inc. d/b/a SBC Wisconsin, the applicable SBC-owned ILEC doing business in Wisconsin.
- 1.25 Network Interconnection Methods (NIMs) include, but are not limited to, Physical Collocation Interconnection; Virtual Collocation Interconnection; Leased Facilities Interconnection; Fiber Meet Interconnection; and other methods as mutually agreed to by the Parties. One or more of these methods may be used to effect the Interconnection.
  - 1.25.1 Trunking requirements associated with Interconnection are contained in Appendix ITR.
  - 1.25.2 The terms and conditions associated with access to Unbundled Network Elements (UNEs) are not found in Appendix NIM, but are contained in Appendix UNE. **SBC SNET** Unbundled Network Elements are offered via the Connecticut Access Tariff.
- 1.26 **SBC-13STATE** shall provide Interconnection for CLEC's facilities and equipment for the transmission and routing of telephone exchange service and exchange access, at a level of quality that is equal to that which **SBC-13STATE** provides itself, a subsidiary, an affiliate, or any other party to which **SBC-13STATE** provides Interconnection and on rates, terms and conditions that are just, reasonable and non-discriminatory.
- 1.27 The Parties shall effect an Interconnection that is efficient, fair and equitable with each party being financially responsible for approximately half of the Interconnection facilities or in any other manner that is mutually agreeable to the Parties.

- 1.28 SBC-13STATE shall, upon request, provide Interconnection for CLEC's facilities and equipment for the transmission and routing of telephone exchange service and exchange access, at any technically feasible point within SBC-13STATE's network.

## 2. NETWORK INTERCONNECTION ARCHITECTURE PLAN

- 2.1 SBC-13STATE's network is partly comprised of End Office switches, Tandem switches that serve local only traffic (SBC SOUTHWEST REGION 5-STATE), Tandem switches that serve IntraLATA and InterLATA traffic, and Tandem switches that serve a combination of local, IntraLATA and InterLATA traffic. SBC-13STATE's network architecture in any given local exchange area and/or LATA can vary markedly from another local exchange area/LATA. Using one or more of the NIMs herein, the Parties will agree to a physical architecture plan for a specific Interconnection area. Due to differing state regulatory calling scope requirements, SBC SOUTHWEST REGION 5-STATE requires Interconnection in each local exchange area, while SBC SNET, SBC CALIFORNIA, SBC NEVADA require Interconnection at all Tandems in a LATA. For SBC-MIDWEST REGION 5-STATE, Subject to Section 3 of Appendix NIM, CLEC will interconnect its network facilities at a minimum of one mutually agreeable and technically feasible Point of Interconnection (POI) on SBC MIDWEST REGION 5-STATE's network within SBC's franchised territory (POI) in each TSA where CLEC offers service CLEC and SBC-13STATE agree to Interconnect their networks through existing and/or new Interconnection facilities between CLEC switch(es) and SBC-13STATE End Office(s) and/or Tandem switch(es). The physical architecture plan will, at a minimum, include the location of CLEC's switch(es) and SBC-13STATE's End Office switch(es) and/or Tandem switch(es) to be interconnected, the facilities that will connect the two networks and which Party will provide (be financially responsible for) the Interconnection facilities. At the time of implementation in a given local exchange area the plan will be documented and signed by appropriate representatives of the Parties, indicating their mutual agreement to the physical architecture plan.
- 2.2 Points of Interconnection (POIs): A Point of Interconnection (POI) is a point in the network where the Parties deliver Interconnection traffic to each other, and also serves as a demarcation point between the facilities that each Party is responsible to provide. In many cases, multiple POI(s) will be necessary to balance the facilities investment and provide the best technical implementation of Interconnection requirements to each Tandem within an exchange area and/or LATA. Both parties shall negotiate the architecture in each location that will seek to mutually minimize and equalize investment.
- 2.3 The Parties agree to meet as often as necessary to negotiate the selection of new POIs. The overall goal of POI selection will be to achieve a balance in the provision of facilities that is fair to both Parties. Criteria to be used in determining POIs for each geography (LATA, tandem area, etc.) include existing facility capacity, location of existing POIs, traffic volumes, relative costs, future capacity needs, etc. Agreement to the location of POIs is based on the network architecture existing at the time the POI(s) is/are negotiated. In the event either Party makes subsequent changes to its network architecture, including but not limited to trunking changes or adding new switches, then the Parties will negotiate new POIs. The mutually agreed to POIs will be documented and distributed to both Parties.
- 2.4 Each Party is responsible for the facilities to its side of the negotiated POI(s) and may utilize any method of Interconnection described in this Appendix. Each Party is responsible for the appropriate sizing, operation, and maintenance of the transport facility to the POI(s). The parties agree to provide sufficient facilities for the Interconnection trunk groups required for the exchange of traffic between CLEC and SBC-13STATE.
- 2.5 Either Party, must provide thirty (30) days written notice of any intent to change to the physical architecture plan.
- 2.6 CLEC is solely responsible for the facilities that carry OS/DA, 911, mass calling and Meet-Point trunk groups as specified in Appendix ITR.
- 2.7 If CLEC has established Collocation in an SBC-13STATE End Office, the facility for the Direct End Office Trunks (DEOTS) to that End Office shall be the financial responsibility of CLEC.

## 2.8 Technical Interfaces

- 2.8.1 The Interconnection facilities provided by each Party shall be formatted using either Alternate Mark Inversion (AMI) line code with Superframe format framing or Bipolar 8 Zero Signaling (B8ZS) with Extended Superframe format framing or any mutually agreeable line coding and framing.
- 2.8.2 Electrical handoffs at the POI(s) will be at the DS1 or DS3 level. When a DS3 handoff is agreed to by the Parties, **SBC-13STATE** will provide any multiplexing required for DS1 facilities or trunking at their end and CLEC will provide any DS1 multiplexing required for facilities or trunking at their end.
- 2.8.3 When the Parties demonstrate the need for Optical handoffs at the OC-n level, the parties will meet to negotiate specific Optical handoff needs.

## 3.0 **Points of Interconnection**

- 3.1 A "Tandem Serving Area" or "TSA" is an SBC ILLINOIS area defined by the sum of all local calling areas that subtend an SBC ILLINOIS tandem as defined in the LERG.
- 3.2 A "TSA POI" is a point of interconnection on SBC ILLINOIS's network that is established to serve the TSA in which the POI is located. This TSA POI may also be used to serve any SBC ILLINOIS Local Tandem Switch(es) and/or SBC ILLINOIS End Office Switch(es) in adjacent TSAs where the V&H coordinates of the SBC ILLINOIS Local Tandem Switch(es) and/or SBC ILLINOIS End Office Switch(es) are less than or equal to fifteen (15) miles from the V&H coordinate of the POI.  

The TSA POI is within the TSA or less than or equal to fifteen (15) miles from the V&H coordinate of the POI to the V&H coordinate of an SBC ILLINOIS tandem building or tandem of end office in the served TSA.
- 3.3 A "Distant POI" is a point of interconnection on SBC ILLINOIS'S network that is established to serve a TSA ("Served TSA") that is more than fifteen (15) from the V&H coordinate of the POI to the V&H coordinate of an SBC ILLINOIS tandem building or designated facility hub in the Served TSA.
- 3.4 A "Single POI" is a single point of interconnection on SBC ILLINOIS network established to interconnect SBC ILLINOIS'S network and CLEC's network for the exchange of Section 251 (b) (5)/IntraLATA Traffic which may serve one or more TSAs within that LATA.
- 3.5 As used in this Agreement, an "End Office POI" is a point of interconnection where an SBC ILLINOIS'S End Office Switch does not subtend an SBC ILLINOIS Local Tandem Switch within the LATA.
- 3.6 CLEC may elect to establish a TSA POI, a Distant POI or Distant POI(s), or a POI at every SBC ILLINOIS tandem building or designated facility hub. A POI may be a "Distant POI" and/or "Single POI" to one Tandem Serving Area at the same time that it is a "TSA POI" to another Tandem Serving Area. If CLEC establishes a Single POI or Distant POI(s) in a LATA, CLEC agrees to compensate SBC ILLINOIS at the appropriate tariffed Intrastate Switched Exchange Access rate for the transport portion of call delivery on SBC ILLINOIS's side of the POI that is outside of the TSA, less the fifteen (15) miles that is designated as being within a TSA. This additional financial responsibility is for interconnection facilities only, and will be determined using the V&H coordinates of the SBC ILLINOIS Access Tandem Switch(es) and/or SBC ILLINOIS End Office Switch(es) and the V&H coordinate of the POI, less fifteen (15) miles. These charges apply to the transport facility without regard to the direction of the traffic.
- 3.7 Establishment of Additional POIs. If CLEC elects to establish additional POIs, the Parties shall negotiate and agree on the intervals for establishing such new POI(s) and the location of such POI(s).

- 3.8 SBC ILLINOIS' network is partly comprised of End Office switches, Tandem switches that serve Section 251(b)(5)/IntraLATA traffic, Tandem switches that serve IntraLATA and InterLATA traffic, and Tandem switches that serve a combination of Section 251(b)(5)/IntraLATA Traffic, and IntraLATA and InterLATA Traffic carried by an IXC. Using one or more of the NIMs herein, the Parties will agree to a physical architecture plan in each LATA where CLEC offers service. At the time of implementation in a given LATA, the plan will be documented and signed by appropriate representatives of the Parties, indicating their mutual agreement with the physical architecture plan.
- 3.9 Except as noted in 3.6 above, each Party is responsible for the facilities on its side of the POI(s) and may utilize any method of Interconnection described in this Appendix. Each Party is responsible for the appropriate sizing, operation and maintenance of the transport facility to the POI(s). The Parties agree to provide sufficient facilities for the Interconnection trunk groups required for the exchange of traffic between CLEC and SBC ILLINOIS.

#### 4. METHODS OF INTERCONNECTION

##### 4.1 Physical Collocation Interconnection

- 4.1.1 When CLEC provides their own facilities or uses the facilities of a 3<sup>rd</sup> party to a **SBC-13STATE** Tandem or End Office and wishes to place their own transport terminating equipment at that location, CLEC may Interconnect using the provisions of Physical Collocation as set forth in Appendix Physical Collocation or applicable state tariff.

##### 4.2 Virtual Collocation Interconnection

- 4.2.1 When CLEC provides their own facilities or uses the facilities of a 3<sup>rd</sup> party to a **SBC-13STATE** Tandem or End Office and wishes for **SBC-13STATE** to place transport terminating equipment at that location on the CLEC's behalf, they may Interconnect using the provisions of Virtual Collocation as set forth in Appendix Virtual Collocation or applicable state tariff. Virtual Collocation allows CLEC to choose the equipment vendor and does not require that CLEC be Physically Collocated.

##### 4.3 Intentionally Left Blank

##### 4.4 Fiber Meet Interconnection

- 4.4.1 Fiber Meet Interconnection between **SBC-13STATE** and CLEC can occur at any mutually agreeable **SBC-13STATE** Tandem or End Office within each local exchange area (**SBC SOUTHWEST REGION 5-STATE**) or LATA (**SBC MIDWEST REGION 5-STATE**, **SBC SNET**, **SBC CALIFORNIA** and **SBC NEVADA**).
- 4.4.2 When the Parties agree to interconnect their networks pursuant to the Fiber Meet, a single point-to-point linear chain SONET system must be utilized. Only local/IntraLata trunk groups shall be provisioned over this jointly provided facility.
- 4.4.3 Neither Party will be allowed to access the Data Communications Channel ("DCC") of the other Party's Fiber Optic Terminal (FOT). The Fiber Meet will be designed so that each Party may, as far as is technically feasible, independently select the transmission, multiplexing, and fiber terminating equipment to be used on its side of the POI(s). The Parties will work cooperatively to achieve equipment and vendor compatibility of the FOT equipment.
- 4.4.4 Requirements for such Interconnection specifications will be defined in joint engineering planning sessions between the Parties. The Parties may share the investment of the fiber as mutually agreed.
- 4.4.5 In addition to the semi-annual trunk forecast process for Local/Intra/LATA trunk groups discussed in Appendix ITR, discussions to provide relief to existing facilities can be initiated by either party. Actual system augmentations will be initiated only upon mutual agreement. Facilities will be planned for to accommodate the verified and mutually agreed upon trunk forecast.

- 4.4.6 Both Parties will negotiate a project service date and corresponding work schedule to construct relief facilities prior to facilities exhaust.
- 4.4.7 Fiber Meet
- 4.4.7.1 Design One: CLEC will provide fiber cable to the last entrance (or SBC-13STATE designated) manhole at the SBC-13STATE Tandem or End Office switch. SBC-13STATE shall make all necessary preparations to receive and to allow and enable CLEC to deliver fiber optic facilities into that manhole. CLEC will provide a sufficient length of Fiber cable for SBC-13STATE to pull through the SBC-13STATE cable vault. CLEC shall deliver and maintain such strands wholly at its own expense up to the POI. SBC-13STATE shall take the fiber from the manhole and terminate it inside SBC-13STATE's office at the cable vault at SBC-13STATE's expense. In this case the POI shall be at the SBC-13STATE designated manhole location. Additional arrangements may be mutually developed and agreed to by the parties pursuant to the requirements of this section.
- 4.4.8 CLEC location includes FOTs, multiplexing and fiber required to terminate the optical signal provided from SBC-13STATE. This location is CLEC's responsibility to provision and maintain.
- 4.4.9 The SBC-13STATE location includes all SBC-13STATE FOT, multiplexing and fiber required to terminate the optical signal provided from CLEC. This location is SBC-13STATE's responsibility to provision and maintain.
- 4.4.10 SBC-13STATE and CLEC shall, solely at their own expense, procure, install, and maintain the agreed-upon FOT equipment in each of their locations where the Parties established a Fiber Meet in capacity sufficient to provision and maintain all trunk groups prescribed by Appendix ITR for the purposes of Interconnection.
- 4.4.11 Each Party shall provide its own source for the synchronized timing of its FOT equipment.
- 4.4.12 CLEC and SBC-13STATE will mutually agree on the capacity of the FOT(s) to be utilized based on equivalent DS1s or DS3s. Each Party will also agree upon the optical frequency and wavelength necessary to implement the Interconnection. The Parties will develop and agree upon methods for the capacity planning and management for these facilities, terms and conditions for over provisioning facilities, and the necessary processes to implement facilities as indicated in section 4 of this document.
- 4.5 Other Interconnection Methods
- 4.5.1 Other Interconnection methods that are technically feasible may be mutually agreed to by the Parties.

## 5. RESPONSIBILITIES OF THE PARTIES

- 5.1 For each local Interconnection within an SBC-13STATE area, CLEC shall provide written notice to SBC-13STATE of the need to establish Interconnection in each local exchange area (SBC SOUTHWEST REGION 5-STATE) or LATA (SBC CALIFORNIA, SBC NEVADA, SBC SNET and SBC MIDWEST REGION 5-STATE). CLEC shall provide all applicable network information on forms acceptable to SBC-13STATE (as set forth in SBC's CLEC Handbook, published on the CLEC website.)
- 5.2 Upon receipt of CLEC's notice to interconnect, the Parties shall schedule a meeting to negotiate and mutually agree on the network architecture (including trunking) to be documented as discussed in Section 2.1. The Interconnection activation date for an Interconnect shall be established based on then-existing force and load, the scope and complexity of the requested Interconnection and other relevant factors.
- 5.3 Either party may add or remove additional switches. The parties shall provide 120 days written notice to establish such Interconnection; and the terms and conditions of this agreement will apply to such Interconnection.

- 5.4 The Parties recognize that a facility handoff point must be agreed to that establishes the demarcation for maintenance and provisioning responsibilities for each party on their side of the POI.
- 5.5 Facilities will be planned for in accordance with the trunk forecasts exchanged between the Parties as described in Appendix ITR.

**6. INTENTIONALLY OMITTED –**

**7. OUT OF EXCHANGE TRAFFIC**

- 7.1 Out of Exchange traffic shall be consistent with the Appendix Out of Exchange Traffic attached to this agreement

**8. APPLICABILITY OF OTHER RATES, TERMS AND CONDITIONS**

- 8.1 Every interconnection, service and network element provided hereunder, shall be subject to all rates, terms and conditions contained in this Agreement which are legitimately related to such interconnection, service or network element. Without limiting the general applicability of the foregoing, the following terms and conditions of the General Terms and Conditions are specifically agreed by the Parties to be legitimately related to, and to be applicable to, each interconnection, service and network element provided hereunder: definitions, interpretation, construction and severability; notice of changes; general responsibilities of the Parties; effective date, term and termination; fraud; deposits; billing and payment of charges; non-payment and procedures for disconnection; dispute resolution; audits; disclaimer of representations and warranties; limitation of liability; indemnification; remedies; intellectual property; publicity and use of trademarks or service marks; no license; confidentiality; intervening law; governing law; regulatory approval; changes in End User local exchange service provider selection; compliance and certification; law enforcement; no third party beneficiaries; disclaimer of agency; relationship of the Parties/independent contractor; subcontracting; assignment; responsibility for environmental contamination; force majeure; taxes; non-waiver; network maintenance and management; signaling; transmission of traffic to third parties; customer inquiries; expenses; conflicts of interest; survival; scope of agreement; amendments and modifications; and entire agreement.